KAAR, Elmar; AMAK, A., red.; LIIVAND, T., tekhn. red.

[Alver coils and their utilization] Localed ja nerde kasuturine.
Tallinn, Eesti riiklik kirjastus, 1961. 40 p. (MIRA 15:5)

(Estonia—Soils)

KAAR, E. V.: Master Biol Sci (diss) -- "The forest qualities of 'al'vars' on the island of Saaremaa and possibilities for afforesting them". Tartu, 1958. 26 pp (Acad Sci Estonian SSR, Dept of Biol and Med Sci), 150 copies (KL, No 2, 1959, 119)

KAAR, Kh. [Kaar, H.]; KIRRET, O.; SHVINDLERMAN, G.

Studying the activity of catalysts on the basis of bis-cyclopentadiene compounds of titanium in the polymerization of ethylene. Izv. AN Est. SSR. Ser. fiz.-mat. i tekh. nauk 12 no. 3:295-300 163. (MIRA 16:11)

1. Academy of Sciences of the Estonian S.S.R., Institute of Chemistry. 2. Corresponding member of the Academy of Sciences of the Estonian S.S. R. (for Kirret).

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ACCESSION NR: AP4014226

S/0023/63/000/004/0414/0419

AUTHORS: Kaar, H. (Kaar, Kh.); Kirret, O. (Corresponding member); Schwindlerman, G. (Shvindlerman, G.)

TITLE: A study of the activity of catalytic systems based on bis-cyclopentadienyl titanium compound in the polymerization of ethylene. 2. A study of the activity of the catalytic complex $({}^{C}_{5}{}^{H}_{5})_{2}{}^{TiCl}_{2}$ - $({}^{iso}_{-}{}^{C}_{4}{}^{H}_{9})_{2}{}^{AlCl}$

SOURCE: AN EstSSR. Izv. Ser. Fiz.-matem. i tekhn. nauk, no. 4, 1963, 414-419

TOPIC TAGS: polymerization, ethylene polymerization, catalyst, alicyclic compounds, titanium-aluminum catalyst, bis-cyclopentadienyl titanium compound, di-iso-butyl aluminum chloride, hydrochloric acid, alkylaluminum dichloride, polar titanium-aluminum bond

ABSTRACT: The effect of HCl and alkylaluminum chlorides on the performance of the catalytic complex (C₅H₅)₂TiCl₂ - (iso-C₄H₉)₂AlCl in the polymerization of ethylene was investigated. The activity of the catalytic system was plotted on graphs and recorded as the yield of the polymer per 1 Mol of bis-cyclopentadienyl (BCPD) within a time period of 1.5 hours. Preliminary experiments with the polymerization

Card 1/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720011-4"

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ACCESSION NR: AP4014226

of ethylene in toluene by the Ti-Al complex revealed a maximum activity within a 20-40C temperature range. It was found that when either HCl or RAlCl₂ were introduced into the reactor previous to the formation of the catalytic Ti-Al complex, the polymerization of ethylene did not take place at all, while the green inactive Ti-Al compound was still formed. Since HCl and RAlCl₂ were effective when time was allowed for the formation of an active Ti-Al complex, it is interpreted by the authors as an indication of a certain time element required for the formation of C-Ti bonds. It is assumed that the incorporation of 0.5-1.0 millimole of HCl per millimole of R₂AlCl results primarily in the formation of RAlCl₂. The obtained polymers were of linear structure and had a melting point of 133-137C. Infrared spectral analysis revealed that when the catalytic system was stimulated by the addition of (C₆H₅)₃CCl the obtained polyethylene contained a large amount of side branches and of double bonds. Orig. art. has: 3 tables and 4 charts.

ASSOCIATION: Institut khimii Akademii nauk Estonskoy SSR (Institute of Chemistry, Academy of Sciences Estonian SSR)

SUBMITTED: 20Jun63

DATE ACQ: 07Feb64

ENCL! CO

SUB CODE: CH

NO REF SOV: 004

OTHER : 006

Card 2/2

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720011-4 - Interdeal and a control of the control of th

ACCESSION NR: AP4043032

8/0023/64/000/002/0148/0153

AUTHORS: Kaar, Kh. (Kaar, H.); Shvindlerman, G. (Schwindlerman, G.)

TITLE: On the interaction of tri-isobutyl of aluminum with alkyl chlorides

SOURCE: AN EstSSR. Izv. Seriya fiziko-matematicheskikh i tekhnich-eskikh nauk, no. 2, 1964, 148-153

TOPIC TAGS: aluminum organic compound, alkylation, reaction rate, halide, aromatic hydrocarbon

ABSTRACT: As a sequel to the work of A. G. Pozamantir (Vy*soko-molekulyarny*ye soyedineniya, v. 2, 1026, 1960) and Pozamantir and M. P. Genusov (ZhOKh, No. 4, 32, 1175, 1962) on the sequence of the rate of interaction of alkyl halides in R₃Al, the authors show that the interaction between R₃Al, R₂AlCl or RA₁Cl₂ and alkyl halides,

Card 1/3

ACCESSION NR: AP4043032

being by its nature a nucleophilic substitution at the aluminum atom, is accelerated, on the one hand, when the electrophility of the organoaluminum molecule increases, and on the other hand when the possibility of a C-Cl bond interruption in the RCl increases. The RCl reactivity order is

 $C_1H_1CI < n \cdot C_1H_1CI < Iso \cdot C_1H_1CI < C_1H_{11}CI < C_2H_{11}CI < C_3H_{11}CI < C_4H_3CI < C_4H_3CI < C_4H_3CI < C_4H_3CI < C_3H_3CI < C$

If the reaction mixture contains aromatic hydrocarbons or groups, the appearance of RAICl₂ and AICl₃ gives rise to Friedel-Craffts reactions followed by an evolution of free HCl. Such a reaction does not occur, however, with the tertiary alkyl halides of the R₃CCl

type, probably because of steric hindrance. A reaction mechanism involving various alkyl halides reacting with aluminum tri-isobutyl is suggested. The experimental procedure and the reagents employed

Card 2/3

ACCESSION NR: AP4043032

are described, and the interaction with (iso-C₄H₉)₃Al with the six compounds is described and the reaction products are tabulated. Orig. art. has: 3 formulas and 1 table.

ASSOCIATION: Institut khimii Akademii nauk Estonskoy SSR (Institute of Chemistry, Academy of Sciences Estonian SSR)

SUBMITTED: 23Nov63

ENCL: 00

SUB CODE: OC

NR REF SOV: 002

OTHER: 002

Card 3/3

ACCESSION NR: AP4043033

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AUTHORS: Kaar, Kh. (Kaar, H.); Shvindlerman, G. (Schwindlerman, G.)

TITLE: Effect of addition of alcohols on the catalytic activity of the systems $(C_5H_5)_2$ TiCl $_2$ + R $_3$ Al (or R $_2$ AlCl) in polymerization of ethylene

SOURCE: AN EstSSR. Izv. Seriya fiziko-matematicheskikh i tekhnicheskikh nauk, no. 2, 1964, 154-159

TOPIC TAGS: alcohol radical, catalytic activity, ethylene, titanium compound, catalytic polymerization

ABSTRACT: This study was of interest because alcohols, on the one hand, are capable of dissociation with separation of a proton (ROH \rightleftharpoons RO $^-$ + H $^+$), and on the other hand the anion OR $^-$ is capable of replacing C1 in (C₅H₅)TiCl₂ with formation of a new titanium compound (C₅H₅)₂Ti(OC₂H₅)C1, containing oxygen. It is shown that the activity Cord 1/3

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ACCESSION NR: AP4043033

of the bicomponent catalytic system $(C_5H_5)_2\mathrm{TiCl}_2$ — $(\mathrm{iso-C_4H_9})_2\mathrm{AlCl}$ in the polymerization of ethylene increases if a third component selected from the group of alcohols is added to the system after the formation of the catalytic complex. Unlike in the previously observed action of small amounts of HCl or RCl, which interact with the anionic part of the catalytic complex, the influence of the alcohols is also connected with the direct addition of an OR group to titanium. This leads to an increase in the stability of the catalytic complex. The reagents $(\mathrm{Al}(\mathrm{iso-C_4H_9})_3(\mathrm{iso-C_4H_9})_2\mathrm{AlCl}$, and $(C_5H_5)_2\mathrm{TiCl}_2)$, and also the polymerization of the ethylene, were carried out in accordance with a procedure described previously by the authors (Izv. AN ESSR, Ser. fiz.-matem. i tekhn. nauk, no. 3, 295 and 414, 1963). The experimental procedure is briefly described. Orig. art. has: 1 figure and 4 tables.

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KAAR, Kh. [Kaar, H.]; SHVINDLERMAN, G. [Schwindlerman, G.]

Interaction of triisobutylaluminum with alkyl chlorides. Izv. AN Est. SSR. Ser. fiz.-mat. i tekh. nauk 13 no.2: 148-153 '64.

Effect of the addition of alcohols on the catalytic activity of the systems (C_5H_5)₂ $T_1Cl_2 + R_3Al$ (or R_2AlCl) during polymerization of ethylene. Ibid.:154-159 (MIRA 17:9)

1. Academy of Sciences of the Estonian S.S.R., Institute of Chemistry.

KAAR, R.

New designs for building light-type hog houses. p. 82

SOTSILKTLIK POLLUMJANDUS. POLLUMJANDUS MINISTEERIUM. Tallin, Hungary. No. 1, 1958.

Monthly List of East European Accessions (EEAI) IC, Vol. θ , no. 11 November 1959.

Uncl.

KAARAMA**A**, L.

AGRICULTURE

Periodical: SCTSIALSTLIK POLLUMAJANDUS Vol 14, no. 3, 1959 Feb.

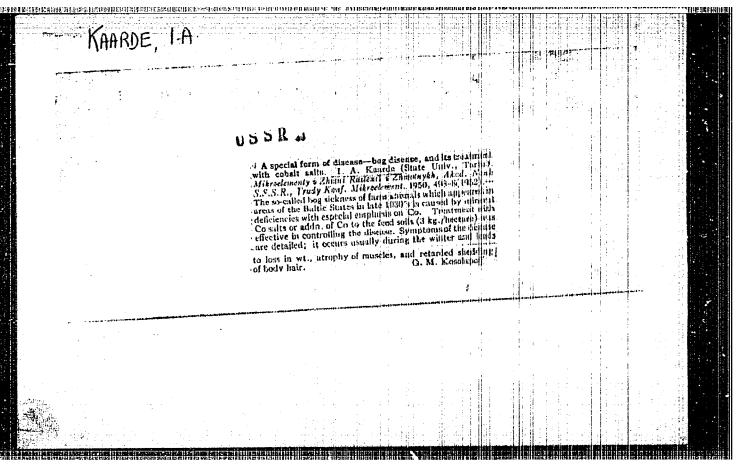
KAARAMAR, L. The norm day or direct wages? p. 100

Monthly List of East European Accessions (EEAI) LC, Vol. 4, No. 5, May 1959, Unclass.

เลืองรายเพื่อเกาะเพื่อเกาะเพื่อเกาะเพื่อเกาะเพื่อเกาะเพื่อเกาะเพื่อเกาะเพื่อเกาะเพื่อเกาะเพื่อเกาะเพื่อเกาะเพื

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KAARDE, LA

USSR/Medicine - Veterinary

FD-1290

Card 1/1

: Pub 137 10/20

Author

Kaarde, I. A. Professor

Title

: Prevalance and etiology of toxic hepathodystrophy (TGD) in swine in the

Esthonian SSR

Periodical

: Veterinariya, 8, 42-43, Aug 1954

Abstract

: Prevalance of TGD in swine has been discovered on those farms where improper sanitary-hygienic conditions are tolerated. Spoiled and decomposed remnands of food particles are the principal causes for spread of TGD, because such food contains toxic substances causing inflammation of the intestinal tract. Incidence of this disease is greater among young swine, because their resistance to toxic condition is lower. Greater susceptibility to the disease has been discovered among swine that lack

vitamin Al, vitamin B complex, and vitamin C in their diet.

Institution : Esthonian Agricultural Academy

Submitted

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720011-4"

CIA-RDP86-00513R000619720011-4 "APPROVED FOR RELEASE: 08/10/2001

् १ - १ - व. : नोम तक्षी त्यानकामावद्वार नामामार्ग सामामाध्यक्षिमीमा सम्भावतः । सम्भावतः १ ४ व्यक्षिमाध्यक्षिम

KHARUE, J.

USSR / Diseases of Farm Animals. Diseases Caused R-2

by Helminths.

Abs Jour: Ref Zhur-Biol., No 2, 1958, 7354

Author : V. Ridala, J. Kaarde

: Estonian Agricultural Academy Inst

: Parasitic Diseases of the Intestinal Tract of Hogs, their Distribution, Treatment and Prophy Title

laxis.

Orig Pub: Sb. nauchn. tr. Est. s-kh. akad. 1956, 2, 175-181

(Est.; Rez. Russk.).

Abstract: Describes parasitological examinations of the

bodies of dead hogs and the organs of slaughter-

ed hogs, and those by means of coprological

analysis, made for the purpose of determining the types of intestinal parasites of hogs, and the frequency of the diseases caused by them, in

Card 1/2

42

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720011-4"

KAARDE, I., prof., red.; PARRE, Yu.[Parre, J.], kand. vet. nauk, red.; RIDALA, V., prof., doktor vet. nauk, red.; TILGA, V., doktor vet. nauk, red.; LEEK, K., tekhn. red.

[Diseases of swine] Bolezni svinei. Tartu, Izd. Estonskoi sel-khoz. Akad. i Estonskogo nauchno-issl. in-ta zhivotnovodstva i veterinarii, 1960. 349 p. (MIRA 15:1)

1. Tartu. Eesti pollumajanduse akadeemia. 2. Estonskiy nauchnoissledovatel'skiy institut zhivotnovodstva i veterinarii (for Tilga). 3. Estonskaya sel'skokhozyaystvennaya akademiya (for Ridala).

(Swine-Diseases and pests)

KAARDE, I. A.

"The white muscle disease in lambs in the Estonian SSR and the prevention of same by means of sodium selemite."

report to be submitted at the 17th World Veterinary Congress, Hanover, West Germany, 11:-21 Aug 63.

KAARLE, I.A., prof.; KHFRIWIMOV, V.P.; SEVRUK, O.; LUZYANIH, E.;
LESNIK, E.; POTAPOV, V.M.; SIKOKSKIY, A.N.

Brief news. Veterinariia 41 no.6:122-125 Je '64.

(MIRA 18:6)

KAARDE, J., prof.; REIDLA, K., kand. vetern. nauk, zam.dots.;

SEPP, V., kand. veter. nauk, st. uchitel'; AVARSOO, H.,
red.; KOHU, H., tekhn. red.

[Veterinary physiotherapy] Veterinarfusioterapia. Tallinn,
Eesti Riiklik Kirjastus, 1963. 191 p. (MIRA 17:1)

(Veterinary medicine)

USSR / Plant Diseases. General.

Abs Jour: Ref Zhur-Biol., No 13, 1958, 58836.

Author : Kaarep. E.

Inst : Estonian Scientific Research Institute of Farming

and Agricultural Improvement.

Title : Recent Diseases of Plants in the Estonian SSR.

Orig Pub: Teaduslik-Tehn. inform bull. Eesti Maaviljeluse ja

Maaparanduse Teadusliku Uurimise Inst., Byul. nauchno-tekh. inform. Est. n.-i. in-t zemled. i

melior., 1957, No 1, 19-24.

Abstract: The tomato root rot (Vermicularia tramentaria

Berk. et Br.) was detected in Tallinn in 1954. From the tomato diseases, the cucumber mozaic virus, besides the widely distributed tobacco mozaic virus, became widespread as a disease

Card 1/3

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KHAREP, E.

USSR/Plant Diseases. - Disease of Cultivated Plants.

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: Ref Zhur - Biol., No 15, 1958, 63558

Author Inst

: Kaarep, E.

Title

: Bitter Rot in the Plum (Council by Colletetrichum fructigenum (Beck.) Vassil.) ... A New Disease in the Estonian

Orig Pub

: Sots. pollumajandus, 1958, No 1, 32.

Abstract : No abstract.

Card 1/1

- 15 -

KAAREP, K.

Using movable glass-covered propped hothouses. p. 133.

SOTSIALISTLIK POLLUMAJANDUS. (Pollumajanduse Ministeerium) Tallinn, Estonia. Vol. 13, no. 3, March 1958.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 11,

Uncl.

KERES, Leida; KAARI, Haldja; PARN, A., red.; KASMETS, O., tekhn. red.

[Manual for pediatricians] Juhendeid lastearetile. Tallinn,

Eesti riiklik kirjastus, 1962. 331 p. (MIRA 15:5)

(FEDIATRICS)

KAARLI, K.

Chemical elements for ensiling should be used efficiently. p.448 SOTSIALISTLIK P'ILUMAJANDUS. Tallinn, Estonia. Vol. 14, no. 10, May 1959

Monthly List of East European Accessions (EEAI) LC. Vol. 8, No. 9, September 1959 Uncl.

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AAMISEPP, I.; EICHENBAUM, E.; HALLER, E.; KAARLI, K.; KIIK, H.;

KIVI, V.; KOTKAS, H.; KOHJUS, H.; LEIVATEGIJA, L.; LIIV,J.;

LÄNTS, L.; MÄLKSCO, A.; PEDAJA, V.; POLNA, H.; RANDALU, I.;

RUUGE, J.; SEKSEL, H.; TOOMRE, R.; TUPITS, H.; TUUL, S.;

TÕNISSON, H.; TÄÄGER, A.; VIIRAND, M.; VAHENÕMM, K.; ARAK,A.,

red.

[Plant breeding] Taimekasvatus. Tallinn, Eesti Raamat, 1964. 813 p. [In Estonian] (MIRA 18:1)

KAARMA, Iokhannes Yanovich; OSIN, Nikolay Petrovich; LAANMYAB,
Vambola Eduardovich [Laanmäe, V.]; MAGON, E.E., red.;
BARANOVA, L.G., tekhn. red.

[Estonian meat-type swine] Estonskaia bekonnaia poroda svinei. Leningrad, Sel'khozizdat, 1962. 109 p. (MIRA 16:4)

(Estonia—Swine breeding)

JANES, Hans; KAASIK, Paul; PUUSEPP, Eugen; VOLDEK, Aleksander; VORK, H., prof., retsenzent; OORN, F., inzh., retsenzent; AHO, L., red.; VAHTRE, I., tekhn. red.

[Electric machinery] Elektrimaginad [By] H.Janes is teised.
Tallinn, Eesti riiklik kirjastus, 1961. 647 p. (MIRA 15:5)

(Electric generators) (Electric transformers)

THE PROPERTY OF THE PROPERTY O

NESGOVOROVA, Ye.D., kand.tekhn.nauk; KAASIK, P.Yu., kand.tekhn.nauk; PARTS, R.R., inzh.; BORISOV, A.P., inzh.

P1 - 11 - 11

Basic principles for designing regulated asynchronous motors. Vest. elektroprom. 32 no.4:68-71 Ap '61. (MIRA 15:5) (Electric motors, Induction)

KAASIK, Paul' Yuliusovich; NESGOVOROVA, Yelena Dmitriyevna; USSER, A.S., kand, tekhn, nauk, red.

ระโปรงสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสามารถสา

[Regulated squirrel-cage induction motors in automatic control systems] Upravliaemye asinkhronnye dvigateli s belich'ei kletkoi na rotore v sistemakh avtomatiki.

Moskva, Energiia, 1965. 198 p. (MIRA 18:6)

KAAZIK, P.A. [Kaasik, P.A.], inzh. BUTKEVICH, Yu.M., inzh. (Tallinn)

Stamp for inclined washers. Stroi.pred.neft.prom. 2 no.8:25-26
Ag '57. (MIRA 11:1)

(Tallinn—Washers (Mechanics))

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AAASIK, P. Yu.

Kaasik, P. Yu.

"Investigation of Supplemental Dispersion and Supplemental Losses in the Loading of Asynchronous Machinery." Min Higher Education USSR. Leningrad Polytechnic Instimeni M. I. Kalinin. Leningrad, 1955. (Dissertation of the Degree of Candidate in Technical Sciences.)

SO: Knizhnaya Letopis', No. 27, 2 July 1955

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SOV/144-59-7-4/17 Nesgovorova, Ye.D., Cand. Tech. Sci., Docent; and Kaasik, P.Yu., Cand. Tech. Sci., Aspirant AUTHORS:

Calculation of the Mechanical Characteristics of Miniature TITLE:

Induction Motors:

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Elektromekhanika

1959, Nr 7, pp 31-35 (USSR)

ABSTRACT: Induction-type miniature motors or fractional horsepower (f.h.p.) induction motors are widely used in automatic control systems and elsewhere. Such characteristics of these motors as their inductance and resistance are different from those of normal induction motors and so the usual formulae may not always be suitable for calculating their mechanical and other characteristics. This article is concerned with the formulae for calculation of electromagnetic torque of f.h.p. motors. Most Soviet designers use the L-network equivalent circuit for an induction motor, proposed by Acad. M.P. Kostenko, which is shown in Fig 1. Variants of this circuit used in particular cases are briefly discussed. For f.h.p. induction motors of 100-500 W, or for an induction motor supplied through a line of high resistance and inductance and in some other Card 1/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720011-4" SOV/144-59-7-4/17 Calculation of the Mechanical Characteristics of Miniature Induction Motors

circumstances, it is advisable to use the accurate L-network equivalent circuit in calculating the torque, which gives an expression somewhat different from formula (1). It is pointed out that the use of a simple correction factor for Eq (1), as advanced by Stolov, is not acceptable. The use of quadripole theory as recommended by V.V. Meshcheryakov is also deprecated. expression is then derived for the torque using the accurate L-network equivalent circuit, and various calculations of the mechanical characteristics of the motor are compared with experimental values. Expressions (7) and (8) are derived for the secondary current and torque respectively, but as the torque expression is cumbersome the more convenient expressions (9) and (10) are derived after some simplification. The maximum torque is determined by inserting the value of the critical slip from Eq (11) into Eq (10). Formulae (1) and (10) for the torque were compared by calculating the mechanical characteristics (torque as a function of slip) for a three-phase fractional horsepower induction motor. main characteristics of the machine are given and it is

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Calculation of the Mechanical Characteristics of Miniature Induction

the same as that described by Stolov. The results are plotted graphically in Fig 1, where curve 1 corresponds to Eq (1), and curve 2 to Eq (10) (which coincides with the curve calculated by Stolov). Curve 3 gives the experimental results and curve 4 corresponds to the usual formulae (1) but embodies the inaccurate correction factors of Stolov. It will be seen that formulae (1) and (10) and Stolov's method give sufficiently accurate results but that curve + is very inaccurate. There are 2 figures and + Soviet references.

ASSOCIATION: Kafedra elektricheskikh mashin, Leningradskiy politekhnicheskiy institut (Chair of Electrical Card 3/3 Machines, Leningrad Polytechnical Institute)

SUBMITTED: May 30, 1959

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s/196/61/000/009/045/052 E194/E155

AUTHOR:

Kaazik, P.Yu.

TITLE:

The influence of motor parameters on the linearity of control of controlled squirrel-cage induction motors

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.9, 1961, 10, abstract 9K 83. (Nauchno-tekhn. inform. byul. Leningr. politekhn. in-ta, no.8, 1960,

15-24)

TEXT: The article considers the influence of the parameters of two-phase squirrel-cage motors on the linearity of control, i.e. on the proportionality between the speed and the coefficient of the signal applied to the control winding when the torque is constant. Theoretical analysis and practical tests on a motor with a rating of 1 W and speed $n_c = 8000$ r.p.m. showed that for motors of up to 5 W the linearity of control is mainly influenced by the ohmic resistance of rotor and stator and also by the inductive leakage reactance of the rotor, whilst the inductive leakage reactance of the stator has negligible effect.

Card 1/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720011-4"

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The influence of motor parameters ... \$\frac{5}{196}\frac{61}{000}\frac{009}{045}\frac{052}{E194}\frac{E155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E194}\frac{155}{E

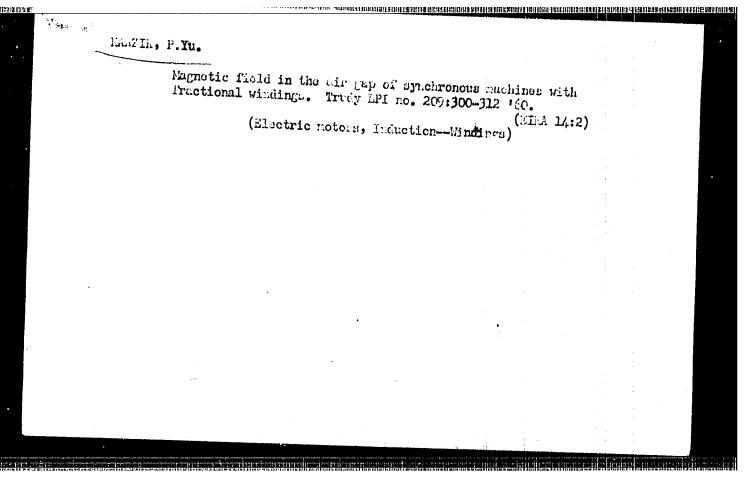
It is recommended to reduce the rotor leakage reactance and to increase its ohmic resistance. If the relative ohmic resistance of the rotor is increased above 1.6 there is no appreciable improvement in the linearity of control.

1 literature reference.

[Abstractor's note: Complete translation.]

Card 2/2

KAAZIK,	P.Yu.							
	Additional 281-299 '6	lesses in 0. (Electric	loaded asy	nchronous m Synchronou	achines.	Trudy (MIRA	LFI no.209: 14(2)	
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pation through the windings. Truck h	air gap of as	ynchronous	e cachines	
			4:2)	
			ontion through the air gap of asynchronous vindings. Trudy MT no. 209:313-337 1 0. (MML 12 Marketic rotors, Induction-Windings)	pation through the air gap of asymphronous rachines windings. Trudy LiT no. 209:313-337 1 0. (Line 14:2) Electric motors, Induction—Windings)

KAAZIK, P.Yu. [Kaasik, P.]

Precise circular diagram of a low-powered asynchronous machine.

Izv. vys. ucheb. zav.; elektromekh. 4 no. 1:38-50 *61. (MIRA 14:4)

(Electric motors, Induction)

KAAZIK, Paul' Yultusovich, kand. tekhn. nauk, dotsent

Semigraphical method for determining the characteristics of an asynchronous machine with amplitude control. Izv. vys. ucheb. zav.; elektromekh. 5 no.7:730-738 '62. (MIRA 15:10)

1. Kafedra elektricheskikh mashin Leningradskogo politekhni-cheskogo instituta.

(Electric motors, Induction)

KAAZIK, Paul' Yuliusovich, kand.tekhn.nauk, dotsent

Semigraphical method for determining the characteristics of an asynchronous machine with presence of phase control. Izv. vys. uch. zav.; elektromekh. 5 no.8:866-875 62. (MIRA 15:8)

1. Kafedra elektricheskikh mashin Leningradskogo politekhnicheskogo instituta.

(Electric motors, Induction)

THE PROPERTY OF THE PROPERTY O

KAAZIK, Paul' Yuliusovich, kand.tekhn.nauk, dotsent

KSER II

Relative parameters of regulated asynchronous motors with squirrel-cage rotors. Izv.vys.ucheb.zav.; elektromekh. 7 no. 3:339-347 164. (MIRA 17:5)

l. karedra elektricheskikh mashin Leningradskogo politekhnicheskogo instituta.

KAAZIK, Paul! Yuliusovich, kand.tekhn.nauk, dotsent; NESGOVOROVA, Yelena Dmitriyevna, kand.tekhn.nauk, dotsent

RES ILE

Analysis of the stability and linearity of the mechanical characteristic of controlled asynchronous m tors. Izv.vys.ucheb. zav.; elektromekh. 7 no.11:1350-1359 *64.

1. Kafedra elektricheskikh mashin Leningradskogo politekhnicheskogo instituta. (MIRA 18:3)

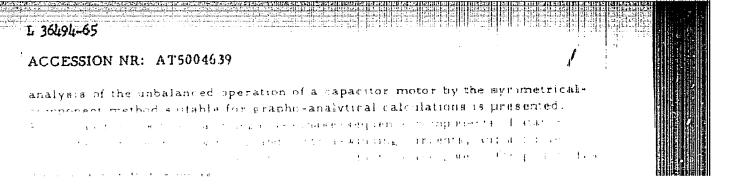
TOKOV, M.I.; KAAZIK, P.Yu.

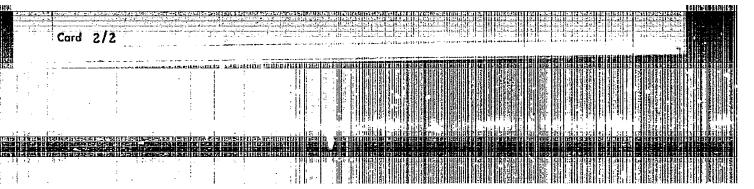
Semigraphical method for calculating the statistical characteristics of an asynchronous motor with speed regulation using an asynchronous frequency converter. Trudy LPI no.241:41-52 '64. (MIRA 18:4)

ABSTRACT: Conventional T-type equivalent circuits of apactor induction servomotors have been used in complicated analytical calculations of these

motors. L-type equivalent circuits have been used in the Soviet Union as a bis so

lard 1/2



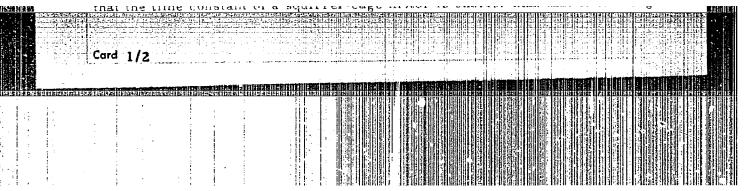


APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720011-4"

SOURCE: Leningrad. Politekhnicheskiy institut. Trudy no. 241, 1964.
Elektromashinostroyeniye (Electrical machinery manufacture), 86-89

TOPIC TAGS - Eduction inclust, controllable induction meter capacitor reduction in the control of service of services.

ABSTPACT: Hererofore drag-cup servemeters have been used in automatic process of the servement of the servem



L 36495-65

ACCESSION NR: AT5004640

cup motor for a motor capacity of 5 w or more. Under 5 w, the relation is questionable. To clarify the matter, five smaller-than 5 w inctors were calculated, both types of the same power and with the same hearing of stator windings. Estimated data (table 2) shows that, under the above conditions, the size of the drag-cup motor considerably exceeds, and its morient of inertial and

KAAZIK, Paul' Yuliusovich, kand. tekhn. nauk, dotsent

Effect of the nonlinearity of the mechanical characteristics of regulated induction motors on their operating characteristics. Izv. vys. ucheb. zav.; elektromekh. 8 no.4:412-420 165.

1. Kafedra elektrichestva mashin Leningradskogo politekhnicheskogo instituta.

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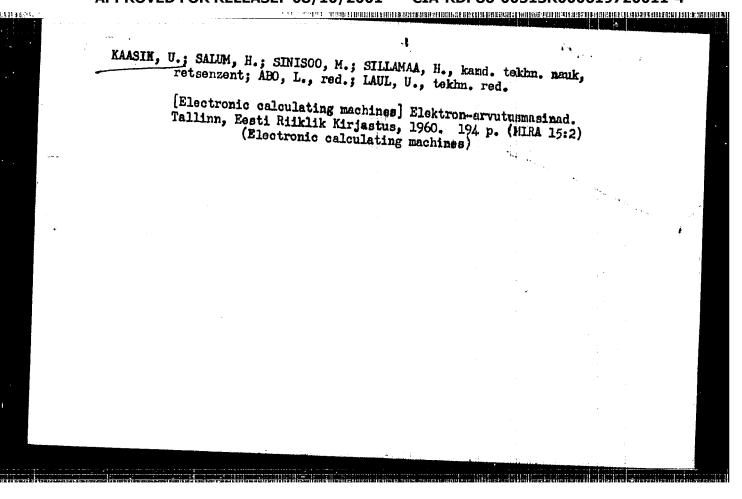
NESGOVOROVA, Yelena Dmitriyevna, kand.tekhn.nauk, dotsent; KAAZIK, Paul'
Yaliusovich, kand.tekhn.nauk, dotsent; SHARAKHIN, Vladimir Nikolayetich,
assistent; ZABOROVSKIY, Sergey Aleksandrovich, assistent; BORISOV.
Al'bert Petrovich, assistent; TOKOV, Mikhail Ivanovich, assistent

BELL

Frequency system for regulating the angular velocity of an asynchronous meter with fan load and auxiliary power supply, Izv.vys.ucheb.zav.; elektromekh. 8 no.9:966-975 165. (MIRA 18:20)

1. Kafedra elektricheskikh mashin Leningradskogo politekhricheskogo instituta (for Nesgovorova, Kaazik, Borisov, Tokov). 2. Kafedra elektroeborudovaniya promyshlennykh predpriyatiy Leningradskogo politekhnicheskogo instituta (for Sharakhin. Zaborovskiy).

KAA.	41K, Paul Gingovich, kand. tekhn. nauk, dottent; FUKHOV, A.A., swrahiy inch.
	characteristics of two-ph se controlled induction motors. Tzv.vys. ucheb.zav.; elektromekh. 8 no.9:985-993 165.
	(MI RA 18:10)
	l. Kafedra elektricheskikh masbin leningradskogo politekhnicheskogo instituta.



USSR/Mathematics - Functional equations

Gard 1/1 Pub. 22 - 1/47

Authors : Kaazik, Yu. Ya. and Gamms, E. B.

Title : About a method of approximate solution of functional equations

Periodical : Dok. AN SSSR 101/6, 981 - 984, Apr. 21, 1955

Abstract : A method is presented for the solution of the so-called functional equations of the type: P(X) = 0, where the P is (in a systain vicinity of the exact solution of X) an analytical operator for transformation from the Banach space X into a linear mormed space Y. Four references: 2 USA and 2 USSR (1870-1950). Tables.

Institution: The State University, Tartu, Estonia

Presented by: Academician A. N. Kolmogorov, December 14, 1954

Z

USSR/MATHEMATICS/Functional analysis SUBJECT

CARD 1/2 PG - 755

AUTHOR

KAASIK Ju.Ja.

TITLE

On the approximative solution of non-linear operator equations

with iteration methods.

Uspechi mat. Nauk. 12, 1, 195-199 (1957) PERIODICAL

reviewed 5/1957

Let be given the non-linear operator equation

(1) P(x) = 0,

where y = P(x) is an analytic operator of the Banach space X into the normalized space Y. Let x be the initial approximation of the rigorous solution x*,

the further approximations let be given by the process:

Here $\Gamma_n = [P^{\dagger}(x_n)]^{-1}$; F_n is a certain linear operator which is formed by the operators E, $\Gamma_n P^{\mu}(x_n), \ldots, \Gamma_n P^{(k)}(x_n)$ and the operator $\Gamma_n P(x_n)$ (k is a fixed integer). For the proof of the rigorous convergence $x_n \rightarrow x^*$ and in order to obtain the estimation for ||x*-xn| the author uses an idea of Kantorovic (Uspechi mat. Nauk 3, 6, 89-185 (1948)). He states that if there

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क्षेत्रका करणा अस्त्र का तिस्त्र का जाता हुए से स्वर्ग करणा साथ स्वर्ग करणा स्वर्ग करणा स्वर्ण करणा हिस्स करणा है। अस्तर करणा स्वर्ण करणा है। अस्तर करणा स्वर्ण करणा स्वर्ण करणा है। अस्तर करणा स्वर्ण करणा है। अस्तर करणा स्वर्ण करणा स्वर्ण करणा है। अस्तर करणा स्वर्ण करणा स्वर

KAAZIK, YU.Ya.

SUBJECT USSR/MATHEMATICS/Functional analysis CARD 1/3 PG - 853

AUTHOR KAASIK Ju. Ja.

TITLE On a class of iteration processes for the approximative

solution of operator equations.

PERIODICAL Doklady Akad. Nauk 112, 579-582 (1957)

reviewed 6/1957

Let P be a two times differentiable operator of the Banach space X into the normalized space X. For the approximative solution of the equation

$$(1) P(x) = 0$$

there is used the iteration process

(2)
$$\Delta x_{n+1} = x_{n+1} - x_n = -(E + \alpha R_n)^{-1} [E + (\alpha + 1)R_n] \Gamma_n P(x_n).$$

Here E is the identical operator, $\prod_{n=1}^{\infty} \left[P^{n}(x_{n}) \right]^{-1}$ and $R_{n} = \frac{1}{2} \prod_{n=1}^{\infty} P^{n}(x_{n}) \prod_{n=1}^{\infty} P(x_{n})$.

For different ox (real number) one obtains several well-known iteration processes.

Theorem: 1) let exist the inverse operator $\Gamma_0 = [P'(x_0)]^{-1}$, where

Doklady Akad. Nauk 112, 579-582 (1957)

CARD 2/3 PG - 85

(3)
$$\|x - x_0\| \le \frac{\delta_0 \eta_0}{1 - s_0^2 h_0^2 (1 - h_0)}$$
,

where

$$\left\| \frac{1}{j!} \Gamma_{o} P^{(j)}(x_{o}) \right\| \leq A_{o} E_{o}^{j-1} \qquad (j=2,3,\ldots),$$

3) The magnitudes η_o , Λ_o , Π_o satisfy the inequations

$$|\alpha| A_0 H_0 \eta_0 < 1$$
, $|\alpha+1| A_0 H_0 \eta_0 < 1$, $h_0 = H_0 \delta_0 \eta_0 < 1$,

where

$$S_{o} = \frac{1 - (|\alpha| - 1) A_{o} H_{o} \eta_{o}}{1 - |\alpha| A_{o} H_{o} \eta_{o}}, \qquad q_{o} = 1 - A_{o} \frac{h_{o} (2 - h_{o})}{(1 - h_{o})^{2}} > 0$$

$$p_{o}^{2} = \frac{s_{o}^{2} h_{o}^{2}}{q_{o} (1 - h_{o})^{2}} \le 1,$$

CARPINISAN, Olimpia, ing.; TAFLAN, Mircea, chim.; DAN, V., ing.;
BESLIU, L., ing.; KABA, E., ing.; VERTLEN, P., ing.; DAVID, V., ing.

Experiments for utilizing the hydrocyanic acid from the coke gas. Metalurgia Rum 15 no.5:348-352 My *63.

KABA, Emeric, ing.; LIVEANU, Nicolaie, ing.; GRINDEANU, Alexandru, ing.
GHERGHEL, Cornel, ing.; MARINUT, Miron;

Improving the determination of coal mixture for coking.
Metalurgia Rum 15 no.5:345-347 My '63.

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KABA, Iuliu, ing.

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The stage of the introduction of new technics and mechanization of the underground production process in Jiu Valley mining exploitation. Rev min 13 no.8:351-354 Ag 62.

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37994 \$/137/62/000/005/142/150 A052/A101

1,2310

AUTHORS:

Pechan, J., Kaba, J.

TITLE:

New Czechoslovakian automatic friction welding machine

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 5,1962, 68, abstract 5E378 ("Techn. zprávy. Výzkum. ústav. naft. motoru", 8, no. 1, 1960 (1961),

26 - 28, Czech; Russian and German summaries)

The basic principles of friction welding are outlined. The hydraulic control system of ATS-20 friction welding machine and its operation is described. The machine is intended for welding rods 20 - 50 mm in diameter, 200 mm long from the spindle side and of any length from the loose head side. The compressive force is <30 tons. The rotating speed is <1,600 rpm. The temperature on contact sections is 800 - 1,260°C. The welding cycle is automated.

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[Abstracter's note: Complete translation]

Card 1/1

KABACHEK, I. We observed "Builder's Day" in the proper manner. Sel'.stroi. 11 no.9:16 S'56. (MERA 9:11) 1. Brigadir stroitel'noy birgady Ordzhonikidsevskoy Mashinno-traktornoy stantsii Sunzhenskogo rayona Grosnenskoy oblasti. (Building)

2/056/63/044/001/008/067 B108/B180

AUTHORS: Korotkov, K. A., Kabachenko, A. P., Lysikov, Yu. A., Dobrov, Yu. V.

TITLE: Internal bremsstrahlung which accompanies the 5-decay of Ca45

PERIODICAL: Zhurnal eksperimental noy i teoreticheskoy fisiki, v. 44, no. 1, 1963, 45 - 47

TEXT: The bremsstrahlung was measured at 40 - 215 kev on a single-channel scintillation spectrometer with an MaI(T1) crystal in an aluminum container. The Ca⁴⁵ beta sources were prepared from a solution of calcium chloride and powdered CaCo₃ applied to and covered by a methacrylate film of 0.1 mg/cm². The sources were kept at a pressure of 1 mm Hg. The spectrum was compared with that calculated according to the theory of 3. K. Knipp and G. E. Uhlenbeck (Physica, 3, 425, 1936) and P. Bloch (Phys. Rev., 50, 272, 1936). At low energies (60 - 130 kev) both curves agree very well, but at higher energies the discrepancy is considerable (35 % at 215 kev) and cannot be eliminated by taking the Cowlonb effect into consideration. There is 1 figure. Card 1/2

Internal bremsstrahlung which ... S/056/63/044/001/008/067
ASSOCIATION: Voronezhskiy gosudarstvennyy universitet (Voronezh State
University)
SUBMITTED: July 1, 1362

Card 2/2

ACC NRI AT6036519	SOURCE CODE: UR/0000/66/000/000/0097/0098	,
AUTHOR: Vasil'yev, I. S.; Ryzh Dorofoyeva, N. Zh.; Khlaponina,	V. F.; Kabachenko, A. S.	
ORG: none		:
TITIE: Effect of proton and go planted human cell cultures Pr Modicine held in Moscow from 21	nmma irradiation on the mitotic activity of trans- uper presented at the Conference on Problems of Space to 27 May 1966.	
•	lemam kosmichoskoy moditsiny, 1966. Problemy kosmichas- ace medicine); materialy konferentsii, Noscow, 1966.	
TOPIC TAGS: proton radiation relative biologic officiency,	biologic effect, ionizing radiation biologic effect, human coll culture, radiation tissue effect, mitosis	
ABSTRACT: Transplanted cell custudy because of their his conly biological objects as This series of experiment effect of proton and game	chitures are a valuable object of radiobiological gh radiosensitivity. They are sometimes the vailable for study of low-energy radiation effects, into was conducted to determine the comparative ma irradiation on the mitotic activity of human cold cultures of amniotic cells, in single layer irradiated with 630-Mev protons from an OlYAI	-
Card 1/3		

synchrocyclotron or with Co ⁶⁰ gamma rays. The dose power of protons was 35 rad/sec and of gamma rays, 3 rad/sec. The activation and luminesscent methods of proton dosimetry were used. Ionization chambers were used to monitor the beam. Mitotic activity was determined immediately after gamma irradiation, and then at intervals of 12, 24, 36, and 48 hr: Similar determinations were made 10, 20, 40, and 60 hr after proton irradiation. A definite change in mitotic activity due to gamma and proton irradiation was observed in these experiments. Immediately after gamma irradiation with all doses the mitotic index decreased, reaching 1.6—1.3 with a 1000—1500 rad dose, as compared with 5.5 in the control. With doses of gamma rays from 750 to 1500 rad the mitotic index fell to 0.5—0.6 within		
synchrocyclotron or with Co 60 gamma rays. The dose power of protons was 35 rad/sec and of gamma rays, 3 rad/sec. The activation and luminesscent methods of proton dosimetry were used. Ionization chambers were used to monitor the beam. Mitotic activity was determined immediately after gamma irradiation, and then at intervals of 12, 24, 36, and 48 hr: Similar determinations were made 10, 20, 40, and 60 hr after proton irradiation. A definite change in mitotic activity due to gamma and proton irradiation was observed in these experiments. Immediately after gamma irradiation with all doses the mitotic index decreased, reaching 1.6—1.3 with a iation with all doses the mitotic index decreased, reaching 1.6—1.3 with a 1000—1500 rad dose, as compared with 5.5 in the control. With doses of gamma rays from 750 to 1500 rad the mitotic index fell to 0.5—0.6 within gamma rays from 750 to 1500 rad the mitotic index fell to 0.5—0.6 within		*
A definite change in mitotic activity due to gamma and proton irradiation was observed in these experiments. Immediately after gamma irradiation with all doses the mitotic index decreased, reaching 1.6—1.3 with a 1000—1500 rad dose, as compared with 5.5 in the control. With doses of gamma rays from 750 to 1500 rad the mitotic index fell to 0.5—0.6 within gamma rays from 750 to 1500 rad the mitotic index fell to 0.5—0.6 within		oton dosimetry were used. Ionization chambers were eam. Mitotic activity was determined immediately
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within 10 hr of irradiation with 40-450 rad the mitotic index increased approximately 50% as compared with the control. Only with large proton doses did mitotic activity decrease. Twenty hr after proton irradiation with 40-1000 rad, the mitotic index reached a low of 1.4-0.07 (1.8 in the control).		the mitotic index decreased, reaching 1.6—1.3 with a secompared with 5.5 in the control. With doses of to 1500 rad the mitotic index fell to 0.5—0.6 within attern was observed following proton irradiation: liation with 40—450 rad the mitotic index increased as compared with the control. Only with large proton
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Intensive recovery of the mitotic index in the postradiation period was		ery of the mitotic index in the postradiation period was
Card 2/3		
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	Observed within 36	with bo	oth type	s of r	adiatio	on: th	e inde	x had va afti	reache er gam	d initie ma irre	l leve	:18 on		
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MESHALKIN, YeoN.; SERGIYEVSKIY, V.S.; KABACHEVSKAYA, E.E.

Late results of aertopulmonary anastomosis in dextraposition of the bulbus cordis (tetralogy of Fallet). Eksper. khir. 4 no.6: 17-26 N-D '59. (MIRA 14:6)

AND LOCAL PROPERTY OF THE PROP

l. Iz Instituta eksperimental noy biologii i meditsiny (dir. - prof. Ye.N.Meshalkin) Sibirskogo otdeleniya Akademii nauk SSSR i khirurgicheskogo otdeleniya 52-y gorodskoy klinicheskoy bol'nitsy Moskwy (glavnyy vrach P.S.Petrushenko).

(TETRALOGY OF FALLOT)

KABA	CHINSKIY	, N. N.						· · · · · · · · · · · · · · · · · · ·	28
meth	od of the	lem of deter e effect fun 8, p. 5-24 -	ction, " T	rudy Gor					
so:	V-3850,	16 June 53,	(Letopis	Zhurnal	'nykh Sta	tey, No. 5	, 1949).		
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	[N-]		
KAB	ACHINSKIY, N., doktor tekhnicheskikh nauk, profes	sor.	
-	Increasing the pulling power of screw tugboats. S '53.	Mor.i rech.flot 13 no.5:22-24 (MLRA 6:10) (Tugboats)	
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123-1-1182

Referativnyy Zhurnal, Mashinostroyeniye, 1957, Nr 1, p. 174 (USSR) Translation from:

AUTHORS:

Kabachinskiy, N. N., Solov'yev, S. S.

TITLE:

Determination of Stresses in Propeller Shaft and in Screw Propeller When Its Blades Strike a Hard Object (K zadache opredeleniya napryazheniy v grebnom valu i v grebnom vinte pri udare yego lopasti o tverdyy predmet)

PERIODICAL:

Trudy Gor'kovsk. politekhn. in-ta, 1956, 11, Nr 4, pp.12-24

ABSTRACT:

In discussing this problem the authors take certain design of propeller shafting with a screw propeller protected from dynamic overstress by the introduction of additional yielding elements in the junction of detachable blades with the nave, in the bearing bushing of the propeller shaft, and in the junction of the latter with the idler They analyze the motion of the given mechanical system while in vibration after an impact. The Lagrangetype equations of motion are formed and a method for

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KABACHINSKII, N.N., doktor tekhn.nauk

Calculating stresses in the shaft and in the propeller as a result of the blade striking a hard object. Trudy NTO sud. prom. 7 no.2:305-332 '57. (MIRA 12:1)

(Shafting) (Propellers)

KABACHINSKIY, N.N., doktor tekhn.nauk

Approximate analytical determination of the interaction between propellers and pusher-tug hulls. Trudy GPI 14 no.1:3-13 '58.

(Ship propulsion)

KARACHINSKIY, N.N., doktor tekhn.nauk

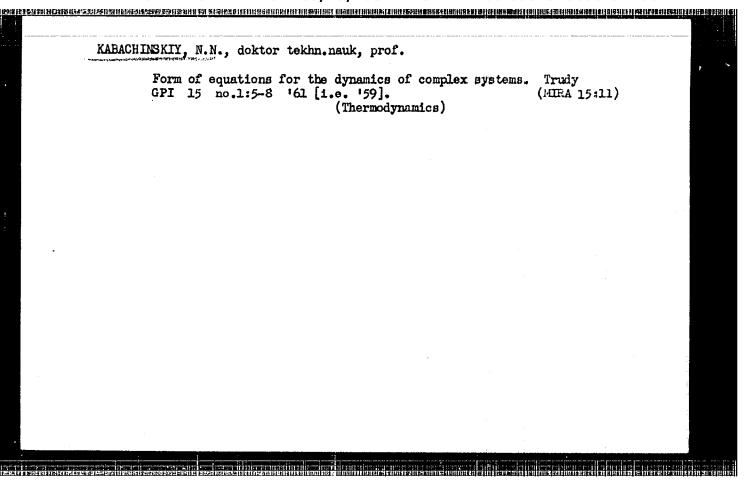
Determining stresses in propeller shafts under the effect of the propeller impact against a hard body. Trudy GPI 14 no.1:14-16 (MIRA 13:2)

(Shafting) (Strains and stresses)

KABACHINSKIY, N.N., doktor tekhn.nauk, prof.

Calculating the transient process in the movement of a self-propelled model. Trudy GPI 15 no.1:8-11 '61 [i.e. '59].

(Transients (Dynamics)) (Ship models—Testing)



LAVRENTOVICH, Ya.I.; LEVON, A.I.; KABACHKI, A.M.

Effect of radiation with various magnitude of linear energy transfer on polymeric films containing dyes. Ukr.khim.zhur. 31 no.5:440-444 165. (MIRA 18:12)

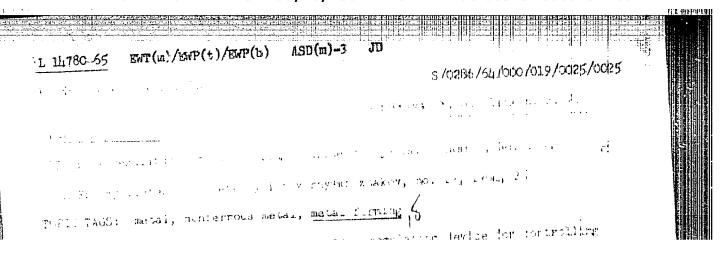
1. Institut fizicheskoy khimii imeni Pisarzhevskogo AN UkrSSR. Submitted Jan. 16, 1964.

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MITEV, D.; KABACHKIEV, G.

For ign bodies in the lower respiratory tract. Khirurgia (Sofiia) 16 no.11:1013-1022 '63.

1. Vissh meditsinski institut, katedra po ushni, nosni i gurleni bolesti, Sofiia. Rukovoditel na katedrata: prof. G. Tankov.



to the static member.

ASSOCIATION: Gosudarstvenny*y nauchno-issledovatel'skiy institut tsvetny*d

metallov (State Scientific Research Institute of Nonferrous Metals)

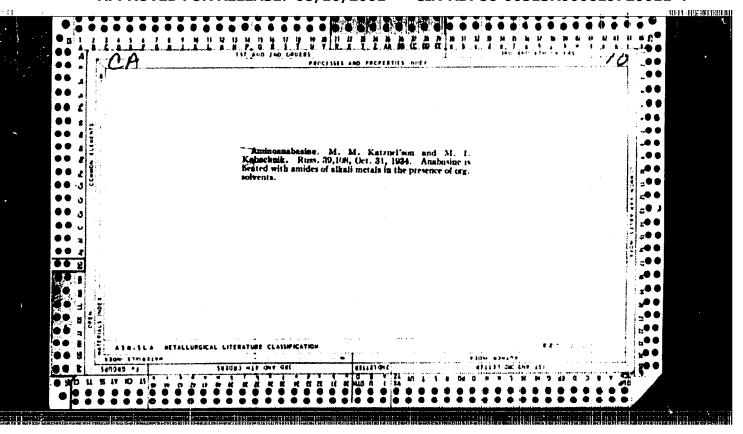
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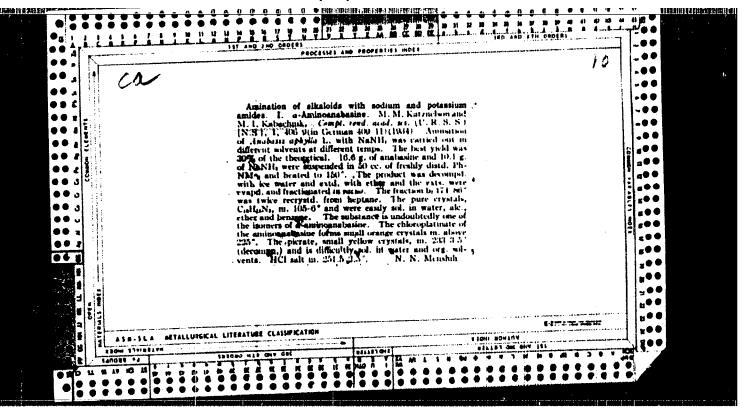
PRYUKVIN, W.A.; PETYGIN, V.I.; KABACHKOV, N.I.

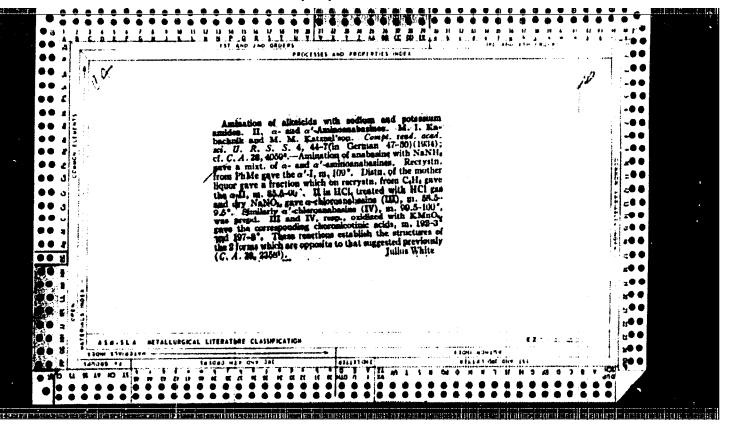
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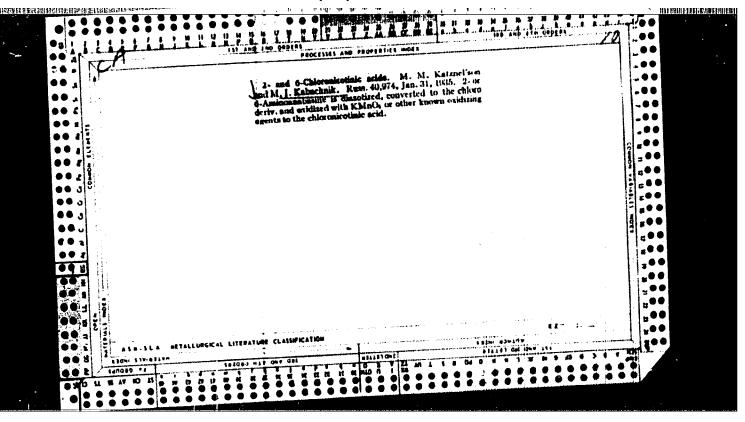
Methods of studying the macrokinetics of exidation of sulfide materials with a continuous recording of the chemical reaction rate. Elektrokhimiia 1 no.7:806-811 J1 165. (HIRA 18:10)

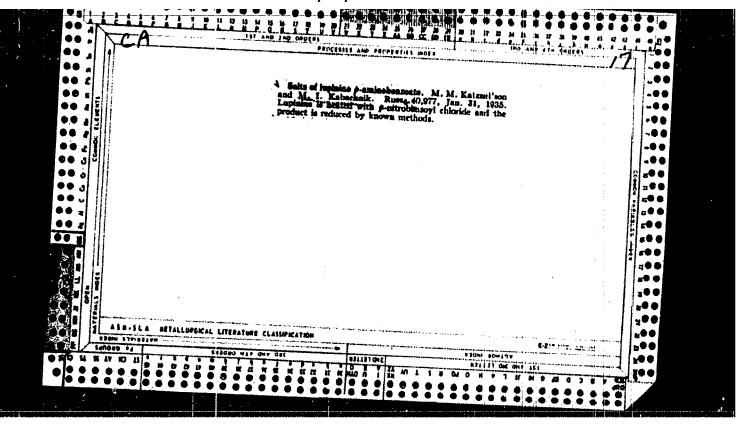
1. Cosudarstvennyy institut tavetnykh metallov.

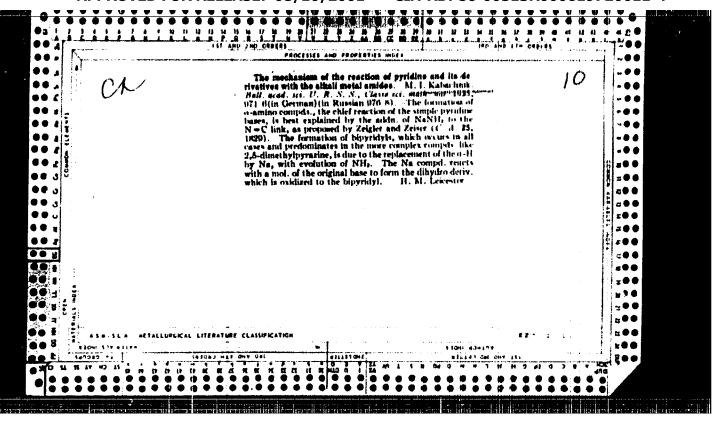


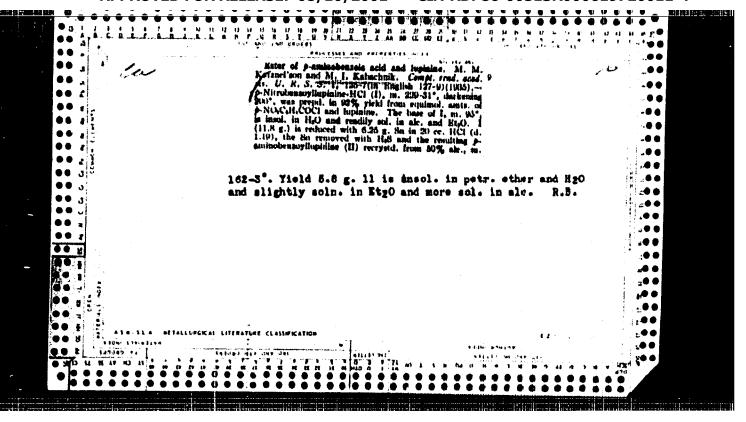


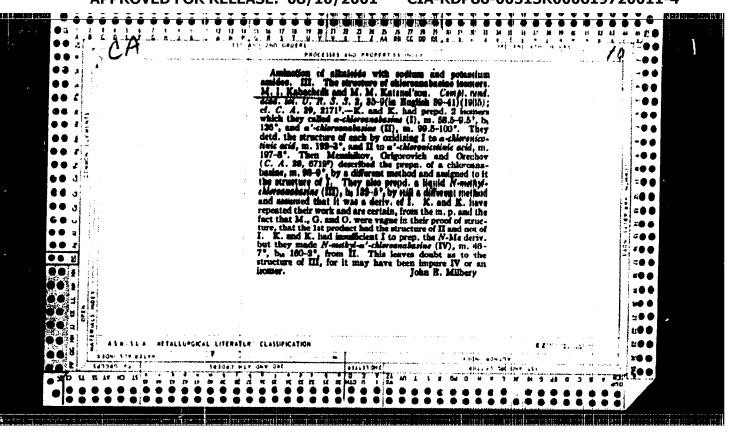


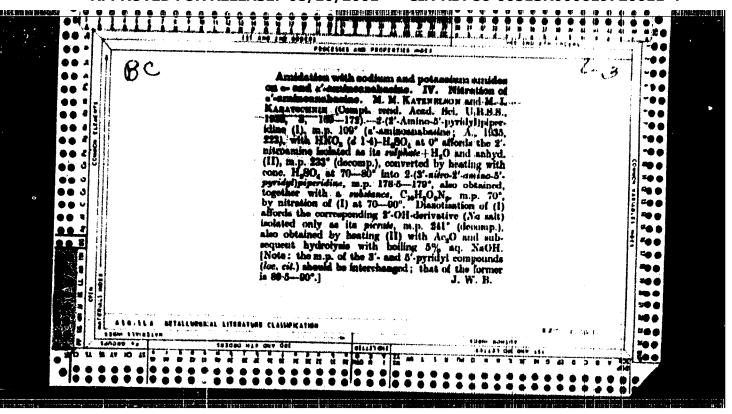












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